Human immunodeficiency virus type 2, isolate ROD, complete proviral genome

GenBank: M15390.1

FASTA Graphics

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LOCUS HIV2ROD 9671 bp DNA linear VRL 14-JUL-2016

DEFINITION Human immunodeficiency virus type 2, isolate ROD, complete proviral genome.

ACCESSION M15390

VERSION M15390.1

KEYWORDS TAR protein; acquired immune deficiency syndrome; complete genome; env protein; gag protein; long terminal repeat; pol protein; polyprotein; reverse transcriptase; transactivator.

SOURCE Human immunodeficiency virus 2 (HIV-2)

ORGANISM Human immunodeficiency virus 2

Viruses; Riboviria; Pararnavirae; Artververicota; Revtraviricetes; Ortervirales; Retroviridae; Orthoretrovirinae; Lentivirus.

REFERENCE 1 (bases 9361 to 9671)

AUTHORS Clavel,F., Guyader,M., Guetard,D., Salle,M., Montagnier,L. and Alizon,M.

TITLE Molecular cloning and polymorphism of the human immune deficiency virus type 2

JOURNAL Nature 324 (6098), 691-695 (1986)

PUBMED 3025743

REFERENCE 2 (bases 1 to 9671)

AUTHORS Guyader,M., Emerman,M., Sonigo,P., Clavel,F., Montagnier,L. and Alizon,M.

TITLE Genome organization and transactivation of the human immunodeficiency virus type 2

JOURNAL Nature 326 (6114), 662-669 (1987)

PUBMED 3031510

COMMENT On May 24, 1996 this sequence version replaced gi:325742.

Original source text: Human immunodeficiency virus 2 (individual_isolate ROD) (clone: lambda ROD[27,35].) DNA.

The ROD isolate was obtained from offshore Senegal in 1985 and this seqence was subsequently determined from two clones: positions 1 to 2658 from ROD 27 and positions 2659 to 9671 from ROD 35. The X ORF has not been found in HIV1. Because the authors claim 100-fold cross-transactivation, we have tentatively annotated the tat protein as tat-III, although the HIV2-tat is somewhat larger and may exhibit a differing specificity.

An infectious clone of this virus has been constructed by Keith Peden, Molecular Biology and Genetics, Johns Hopkins University School of Medicine, Baltimore, MD. 21205 (301)955-3652.

FEATURES Location/Qualifiers

source 1..9671

/organism="Human immunodeficiency virus 2"

/proviral

/mol_type="genomic DNA"

/isolate="ROD"

/db_xref="taxon:11709"

/clone="lambda ROD[27,35]."

repeat_region <1..299

/note="5' LTR"

/rpt_type=long_terminal_repeat

repeat_region <1..173

/note="R repeat 5' copy"

misc_binding 303..319

/bound_moiety="Lys-tRNA primer"

CDS 546..2114

/note="gag polyprotein"

/codon_start=1

/protein_id="AAB00763.1"

ORIGIN Cap site of genomic RNA.

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  61 gtagagcctg ggtgttccct gctagactct caccagcact tggccggtgc tgggcagacg
 121 gccccacgct tgcttgctta aaaacctctt aataaagctg ccagttagaa gcaagttaag
 181 tgtgtgctcc catctctcct agtcgccgcc tggtcattcg gtgttcacct gagtaacaag
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 721 aaattcttac agttttagat ccaatggtac cgacaggttc agaaaattta aaaagtcttt
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1201 caataccagg ccccttacca gcggggcagc ttagagagcc aaggggatct gacatagcag
1261 ggacaacaag cacagtagaa gaacagatcc agtggatgtt taggccacaa aatcctgtac
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